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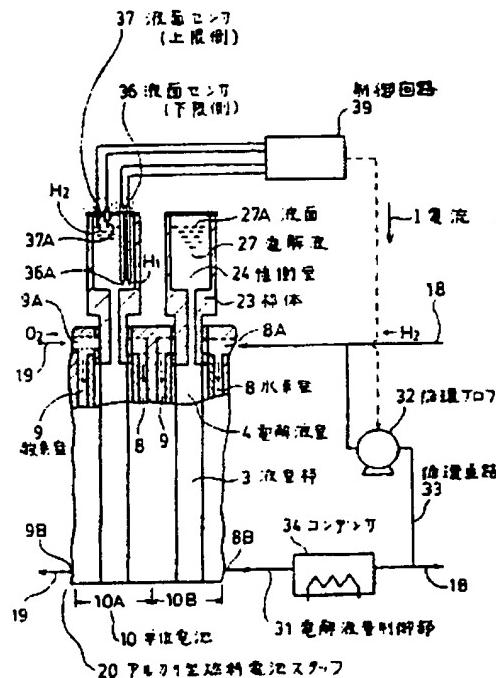
APPLICATION DATE : 01-08-88
 APPLICATION NUMBER : 63192321

APPLICANT : FUJI ELECTRIC CO LTD;

INVENTOR : WATANABE SHUNJI;

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TITLE : ALKALI TYPE FUEL CELL POWER GENERATOR



ABSTRACT : PURPOSE: To control the rate of dilution of an electrolyte, accelerate the discharge of the generated water, and stably perform a continuous operation by providing a liquid level sensor detecting the increase or decrease of the electrolyte in the buffer chamber of each unit cell and controlling the electrolyte quantity.

CONSTITUTION: An alkali type fuel cell laminated with unit cells 10 each having a buffer chamber 24 has liquid level sensors 36 and 37 detecting the increase of the liquid quantity based on the water generated by power generation and a control circuit 39 turned on when the liquid level exceeds the upper limit level and turned off when it is lower than the lower limit level and generating the output current. This device also has a circulating circuit containing a circulating blower 32 and a capacitor 34 connected to at least one side of a hydrogen gas chamber and an oxidation gas chamber, the on or off operation of the circulating blower 32 is controlled by the control circuit 39, an electrolyte quantity controller 31 circulating the excess reaction gas promoting the evaporation of moisture from an electrolyte chamber 4 is provided. The evaporation of moisture in the electrolyte is promoted, the electrolyte concentration is controlled within the preset range, a stable power generating operation can be continuously performed.

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